

SHCHERBAN', A.N., akademik; KREMNEV, O.A., kand.tekhn.nauk

State of and the outlook for the development of science and
equipment in the field of regulating mine heat conditions.

Trudy Sem.po gor.teplotekh. no.3:5-13 '61.

(MIRA 15:4)

1. Institut teploenergetiki AN USSR.

(Mine ventilation)

SHCHERBAN', A.N., akademik; KREMNEV, O.A., kand.tekhn.nauk; KOZLOV, Ye.M.,
inzh.; SHELIMANOV, V.A., inzh.

Analytical functions describing the processes of temperature
and relative humidity changes in mine shafts. Trudy Sem,po gor.
teplotekh. no.3:25-28 '61. (MIRA 15:4)

1. Institut teploenergetiki AN USSR.
(Mine ventilation)

SHCHERBAN', A.N., akademik; KREMNEV, O.A., kand.tekhn.nauk; KOLLOV, Ye.M.,
inzh.; SHELIMANOV, V.A., inzh.

Analytical functions describing the processes of mine temperature
and relative humidity changes. Trudy Sem.po gor.teplotekh.
no.3:29-32 '61. (MIRA 15:4)

1. Institut teploenergetiki AN USSR.
(Mine ventilation)

SHCHERBAN', A.M. (Kiyev); FURMAN, N.I. (Kiyev)

Analysis of thermal transient processes in electrical networks
with concentrated active loads. Izv. AN SSSR. Otd. tekhn. nauk.
Energ. i avtom. no.3:216-221 My-Je '62. (MIRA 15:6)
(Electric networks)

SHCHERBAN', A.N., akademik; TSYRUL'NIKOV, A.S., kand.tekhn.nauk;
YEREMIN, I.Ya., inzh.

Effect of degassing a coal seam on the temperature conditions
of the seam and wall rocks. Trudy Sem.po gor.teplotekh. no.4:
5-15 '62. (MIRA 15:8)

1. Institut teploenergetiki AN UkrSSR. 2. AN UkrSSR (for
Shcherban').
(Mine gases) (Mine ventilation)

SHCHERBAN', A.N., akademik

Heat exchange in deep mines. Vest.AN SSSR 32 no.8:67-71 Ag '62.
(MIRA 15:8)

1. AN USSR.

(Donets Basin--Mine ventilation)

SHCHERBAN¹, Aleksandr Nazarovich; RUTENKO, Anatoliy Aleksandrovich;
GONCHAROVA, V.N., red.; NOVOMINSKIY, A.N., red.; LIBERMAN,
T.R., tekhn. red.

[Pages of the Donets chronicle] Stranitsy letopisi Donetskoi.
Kiev, Izd-vo AN Ukr.SSR, 1963. 169 p. (MIRA 16:7)
(Donets Basin--Coal miners)

.SHCHERBAN', Aleksandr Nazar'yevich; KREMNEV, Oleg Aleksandrovich;
TITOVA, Nina Mikhaylovna; RATNIKOVA, A.P., red. izd-va;
BOLDYREVA, Z.A., tekhn. red.

[Properties of humid air at pressures of 500 to 1000 mm. Hg.;
tables and diagrams] Svoistva vlazhnogo vozdukha pri davleniyakh
500 - 1000 mm rt. st.; tablitsy i diagrammy. izd-nie 2-e. Mo-
skva, Gosgortekhnizdat, 1963. 131 p. (MIRA 16:6)
(Humidity) (Meteorology--Tables, etc.)

SHCHERBAN', A.N.; FURMAN, N.I.; TARASEVICH, V.N.; NATANZON, Ya.V.;
ERENBURG, I.I.

Thermopile groups of a single-chamber thermocatalytic transducer for the IM-2, IM-3, IMT-1, IM-3M, and AMT-2 automatic mine methanometers. Ugol' Ukr. 7 no.4:20-22 Ap '63.
(MIRA 16:4)

1. Institut teploenergetiki AN UkrSSR (for Shcherban', Furman, Tarasevich, Natanzon). 2. Zavod "Krasnyy metallist" (for Erenburg).
(Mine gases—Measurement) (Transducers)

SHCHERBAN', A.N. [Shcherban', O.N.] (Kiyev); KAPLAN, R.A. (Kiyev);
PRIMAK, A.V. [Prymak, A.V.] (Kiyev)

Transmitting device of a frequency telemetry system of low-
power output signals. Avtomatyka 8 no.6:42-46 '61.

(MIRA 17:8)

SHCHERBAN', Aleksandr Nazar'yevich, akademik

[Soviet science is the basis of technological progress]
Sovetskaia nauka - osnova tekhnicheskogo progressa. Kiev,
Naukova dumka, 1964. 58 p. (MIRA 17:11)

1. Gosudarstvennyy Komitet Soveta Ministrov Ukr.SSR.

TOLUBINSKIY, V.I., otv. red.; FEDOSEYEV, V.A., doktor fiz.-mat. nauk, zam. otv. red.; DORFMAN, A.Sh., kand. tekhn. nauk, red.; DUSHCHENKO, V.P., kand. fiz.-mat. nauk, red.; DYBAN, Ye.F., kand. tekhn. nauk, red.; KREMNEV, O.A., doktor tekhn. nauk, red.; NAZARCHUK, M.M., kand. tekhn. nauk, red.; ORNATSKIY, A.P., kand. tekhn. nauk, red.; PAVLOVICH, V.F., doktor tekhn. nauk, red.; SHVETS, I.T., kand. tekhn. nauk, red.; SHCHEGOLEV, G.M., kand. tekhn. nauk, red.; SHCHERBAN', A.N., akademik, red.; SYTNIK, H.K., red.

[Thermophysics and heat engineering] Teplofizika i teplo-tekhnika. Kiev, Naukova dumka, 1964. 339 p.

(MIRA 18:1)

1. Akademiya nauk URSR, Kiev. Instytut tekhnichnoy teplofizyky.
2. Institut tekhnicheskoy teplofiziki AN Ukr.SSR, Kiev (for Dorfman, Dyban, Nazarchuk, Tolubinskiy, Shchegolev).
3. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti (for Dushchenko, Pavlovich).
4. Kiyevskiy politekhnicheskiy institut (for Ornatskiy).

(Continued on next card)

TOLUBINSKIY, V.I.— (continued). Card 2.

5. Odeskiiy universitet (for Fedoseyev). 6. Kiyevskiy universitet (for Shvets). Akademiya nauk Ukr.SSR (for Shcherban', Shvets). 7. Chlen-korrespondent AN Ukr.SSR (for Tolubinskiy). 8. Gosudarstvennyy komitet Soveta Ministrov po koordinatsii nauchno-issledovatel'skikh rabot (for Shcherban').

ACCESSION NR: AP4020319

S/0302/64/000/001/0047/0050

AUTHOR: Shcherban', A. N. (Academician); Furman, N. I. (Candidate of Technical Sciences); Primak, A. V.; Belogolovin, N. S.; Tarasevich, V. N.

TITLE: High-stability transmitter for a frequency-type telemeter with a weak-signal sensor

SOURCE: Avtomatika i priborostroyeniye, no. 1, 1964, 47-50

TOPIC TAGS: telemeter, frequency type telemeter, telemeter sensor, telemeter weak signal sensor, telemeter transmitter, frequency type telemeter transmitter

ABSTRACT: The development of two versions of a new transmitter: (a) with a magnetic d-c amplifier and (b) with a semiconductor d-c amplifier, is reported. The magnetic amplifier was invented by A. N. Shcherban', R. A. Kaplan, and A. V. Primak (Author's Certificate no. 153676). A controlled transistorized LC oscillator is used as a source for supplying a differential magnetic amplifier which, in turn, controls the oscillator frequency. The sensor frequency may vary from d-c to 1,000 cps. Laboratory tests demonstrated the frequency

Card 1/2

ACCESSION NR: AP4020319

stability at 0-60C ambient temperature and -25%+10% variation in the supply voltage. An IM-3 methane indicator was used as a sensor. However, "the use of the transmitting device in mines was hampered by the complexity of the magnetic amplifier, difficulty in its alignment, large size, and considerable inertia which caused a frequency-conversion collapse on rapidly varying signals." Hence, a semiconductor amplifier was developed instead; input impedance, 230 ohms; load impedance, 60 ohms; input current, 61 microamp; output current, 4 ma; $K_i = 65$; $K_r = 1,200$. The transmitting device is being adapted for IM-3 and AMT-2 methane monitors at the "Krasnyy metallist" Electromechanical Plant, Konotop. Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Institut teploenergetiki AN UkrSSR (Institute of Thermal-Power Engineering, AN UkrSSR)

SUBMITTED: 00

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: CG, IE

NO REF SOV: 001

OTHER: 000

Card 2/2

T. [Tereshchenko, V.I.]; SHCHERBAN', A.N. [Shcherban'],
[M.], akademik

Results of an experimental investigation of the coefficient
of nonstationary heat exchange in the stopes of deep mines in
the Donets Basin. Dop. AN URSR no. 6:783-788 '64.
(MIRA 17.1)

1. Institut teploenergetiki AN UkrSSR. 2. AN UkrSSR (L'vov
[Shcherban']).

TERESHCHENKO, V.G. [Tereshchenko, V.H.]; SHCHERBAN', A.N. [Shcherban', O.N.]
akademik

Predictions of the surface temperature of rock and coal massifs
at the working face of a longwall in mines under construction.
Dop. AN URSR no.9:1183-1186 '64. (MIRA 17:11)

1. Institut teploenergetiki AN UkrSSR. 2. AN UkrSSR (for
Shcherban').

SHCHERBAN', A.M. [Shcherban', O.N.], akademik; FURMAN, N.I.; TARASEVICH, V.N.
[Tarasovych, V.M.]

Analytic and experimental research of nonsteady-state thermal
resistance in the power supply circuit. Dop. AN URSR no.1:49-
53 '65. (MIRA 16:2)

1. Institut tekhnicheskoy teplofiziki AN UkrSSR. 2. AN UkrSSR
(for Shcherban').

SHCHERBAN', A.N. [Shcherban', A.N.], skhidnik; FUMAN, N.I.: Tekhn. Zh. 11.
[Tatkovskiy, V.M.]

Analysis of thermal transients in concentrated active loads of
electric circuits at $I = \text{const.}$ Dop. AN URSR no.9:1172-1175 '85.
(MIRA 18:9)

1. Institut tekhnicheskoy termodinamiki AN URSR. 2. AN URSR
(for Shcherban').

GLUSHKOV, V.M., otv. red.; KUKHIENKO, A.I., zam. otv. red.;
BLAGOVESHCHANSKIY, Yu.V., red.; DORODNITSYN, A.A., red.;
YERSHOV, A.P., red.; LYAPUNOV, A.A., red.; MOSKALEV,
I.S., red.; FUKHOV, G.Ye., red.; ROSTUNOV, T.I., red.;
SAMOKHVALOV, K.G., red.; STOJNIY, A.A., red.; TIMOFEYEV,
B.B., red.; SHCHERBAN', A.N., red.; LETICHEVSKIY, A.A.,
red.; KAPITONOVA, Yu.V., red.; MEL'NIK, T.S., red.

[Problems of theoretical cybernetics] Voprosy teoretiches-
koi kibernetiki. Kiev, Naukova dumka, 1965. 209 p.
(MIRA 18:9)

1. Akademiya nauk URSS, Kiev.

SHCHERBAN', A.N., akademik; BARATOV, F.I., kand. tekhn. nauk; CHERNYAK,
V.P., kand. tekhn. nauk

System of mine air cooling with the use of cased holes.
Met. i gornorud. prom. no.6:53-54 N-E '65.

(MIRA 18:12,

1. AN UkrSSR (for Shcherban').

ACC NR: AP6021782

SOURCE CODE: UR/0413/66/000/012/0048/0048

INVENTOR: Shcherban', A. N.; Furman, N. I.; Grishko, V. G.

ORG: none

TITLE: Ferro-transistor multivibrator. Class 21, No. 182765

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 48

TOPIC TAGS: pulse oscillator, multivibrator

ABSTRACT: The Author Certificate has been issued for a multivibrator design using two transistors whose bases are magnetically coupled. The magnetic circuit consists

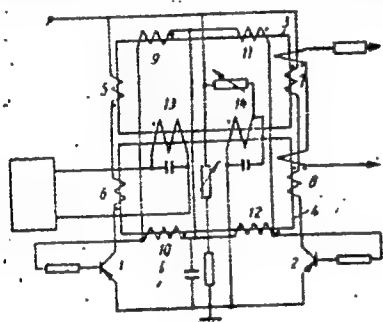


Fig. 1. Multivibrator circuit

1,2 - Transistors; 3,4 - cores; 5,6,7,8 - collector split windings; 9,10,11,12 - base split windings; 13 - control winding; 14 - bias winding.

Card 1/2

UDC: 621.373.52

L 33322-56

ACC NR: AP6021782

of two equal cores each having half the total number of windings in each transistor collector and base circuits. Each half winding in the collector circuits is connected in series, and in parallel in the base circuits. Each core is wound with a common control and bias winding. This configuration permits the repetition frequency of the multivibrator pulses to be variable while the shape of the pulses remains undistorted (see Fig. 1). Orig. art. has: 1 figure. [BD]

SUB CODE: 09/ SUBM DATE: 05Apr65/ ATD PRESS: 5026

Card 2/2

ACC NR: AT7002153

(A)

SOURCE CODE: UR/0000/66/000/000/0020/C024

AUTHOR: Sheherban', A. N.; Filippenko, L. G.; Zernyak, T. S.

ORG: Institute of Technical Thermophysics AN UkrSSR (Institut tekhnicheskoy teplofiziki AN UkrSSR)

TITLE: On chemical equilibrium in a gas mixture assuming an arbitrary relationship between volume and pressure

SOURCE: AN UkrSSR. Termodinamika teplovykh dvigateley (Thermodynamics of heat engines). Kiev, Izd-vo Naukova dumka, 1966, 20-24

TOPIC TAGS: chemical equilibrium, gas pressure, gas analysis

ABSTRACT: A system of equations is derived for determining chemical equilibrium in a vessel with adiabatic insulation containing a mixture of gases, assuming that volume is an arbitrary function of pressure. It is shown that this assumption does not introduce any serious analytical complications as compared with the cases where pressure or volume is assumed to be constant even though the enthalpy and internal energy of the system vary with an arbitrary relationship between pressure and volume. At the same time, the numerical values of the thermodynamic parameters may differ considerably. An example is given showing application of the proposed system of equations in determining the composition of a gas mixture after chemical equilibrium is reached in a thermally insulated vessel designed for a linear relationship between volume and pressure. It is shown that equilibrium parameters in actual vessels may differ considerably from those under ideal conditions even with a fairly weak relationship between volume and pressure. Orig. art. has: 9 formulas.

SUB CODE: 20/ SUBM DATE: 12Feb65

Card 1/1

ACC NR: AP7004652

(A, N)
(Academician)

SOURCE CODE: UR/0432/66/000/001/0018/0020

AUTHOR: Shcherban', A. N.; Furman, N. I. (Candidate of technical sciences);
Grishko, V. G.; Belogolovin, N. S.

ORG: none

TITLE: Telemetric frequency meter with increased sensitivity

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 1, 1966, 18-20

TOPIC TAGS: frequency meter, telemetry equipment, transistorized circuit

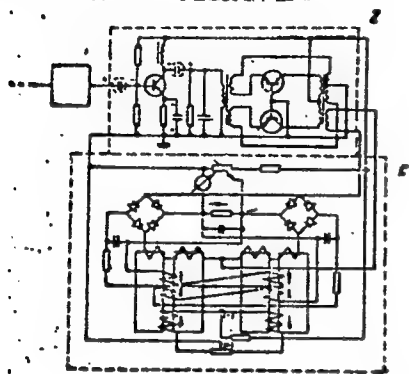
ABSTRACT: A frequency meter, originally designed for use as a receiver of telemetric signals when measuring methane concentration in mines, is described. The transistorized meter circuitry consists of an input voltage converter and a capacitive pulse shaper. The converter includes a two-stage pre-amplifier and a magnetic multivibrator. The pre-amplifier synchronizes the multivibrator with the received frequency. The pulse shaper is a full-wave bridge rectifier consisting of two capacitors and four diodes. Some of the meter parameters are: operating frequency, 2—3 kc; minimum input signal amplitude, 10 mv; output power, 3 mw; supply voltage, 15 v; maximum measurement error, 15%; and temperature characteristics, flat from 5—50C. The meter, developed by the Institute of Technical Thermophysics of the Academy of Sciences USSR, can be used to measure frequencies in telemetry systems or for direct frequency measurements. Orig. art. has: 1 figure. [IV]

SUB CODE: 14, 09/ SUBM DATE: none/ SOV REF: 002

Cord 1/1. UDC: 621.317.761

ACC NR: AP7009071

the signal to be measured. The other ends of the feedback windings are connected to the positive output of the bridge rectifiers for right and left cycles respectively, and interconnected through a resistor. The feedback windings for right and left cycles are connected in opposition.



1--magnetic amplifier; 2--square pulse generator

SUB CODE: 09/ SUBM DATE: 22Jul64

Card 2/2

SHCHERBAN' A. V.

PA 48/49T85

USSR/Mining
Firedamp
Cooling

Feb 49

"Soviet Techniques of Cooling Firedamp in the
Deep Shafts of the Donbas," A. V. Shcherban',
Coal Tech Sci, 5 pp

"Ugol" No 2

Compressor system with cooling equipment on the
surface cools air in the shaft by means of an
auxiliary duct incorporating a heat-exchange
principle of pressure reduction (ICM system).
Central or central-grouped layout within the
limit of mine operations is most efficient cooling

48/49T85-

USSR/Mining (Contd)

Feb 49

system for deep shafts of the Donbas. Recom-
mends efficient arrangement of air coolers for
depth of 1,100.-1,200 meters, at a pipe length
not exceeding 3,000 meters.

48/49T85

SHCHERBAN', Boris Stepanovich; SIMKHO, Kh.S., red.; KAYDALOVA, M.D.,
tekh.n.red.

[The Amur; guidebook] Amur; putevoditel'. Khabarovsk,
Khabarovskoe knizhnoe izd-vo, 1960. 253 p. (MIRA 13:2)
(Amur Valley--Guidebooks)

L 10073-63

EWT(1)/EWT(m)/EWP(q)/BDS/EEC(b)-2---AFPTC/ASD/ESD-3--

IJP(C)/JD/JG

ACCESSION NR: AR3000373

S/0058/63/000/004/E064/E064

SOURCE: RZh. Fizika, Abs. 4E433

64

AUTHOR: Andronik, I. K.; Kot, M. V.; Shcherban, D. A.

TITLE: Electric properties of single crystals of cadmium antimonate doped with impurities

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 37-46

TOPIC TAGS: semiconductors, doped cadmium antimonate, single crystals, electric properties

TRANSLATION: CdSb crystals doped with impurities of groups Three, Four, and Six (In, Pb, and Te) were investigated. The temperature dependences of the specific conductivity, the differential thermal emf and of the Hall effect were measured in different crystallographic directions. Assuming that at temperatures above 20° K the mechanism of scattering by phonons is effective, the formula $\ln \sigma = f(1/P)$ was used to calculate the value of the forbidden band, 0.57 ev.

Card 1/2

L 10073-62

ACCESSION NR: AR3000373

0

The values of the effective masses of the electrons and holes, determined from the data on the Hall effect and the thermal emf using the Pisarenko formula are respectively $m^*_{\text{sub } n} = 0.6$ -- 0.7 $m_{\text{sub } 0}$, $m^*_{\text{sub } p} = 0.4$ -- 0.5 $m_{\text{sub } 0}$. From measurements made at helium temperatures it is concluded that the impurities Pb, In, and Te bind the acceptors chemically. This leads to the occurrence of uncompensated acceptor levels in place of the impurity band, owing to the reduction in the acceptor concentration. On the basis of the experimental data (decrease in mobility in doped crystals; double reversal of the sign of the components of the Hall and thermal emf tensors in the crystallographic directions of a and b, and single inversion in the direction c) it is shown that the energy structure of the bands in CdSb should be complex. It is suggested that the valence band consists of two bands. V. Gurevich

DATE ACQ: 14May63 ENCL: 00 SUB CODE: PH

1m/ ja
Card 2/2

✓11035
EXPERIMENTS WITH LIQUID EMULSION IN HYSTO-
RADIOAUTOGRAPHY. N. D. Grachova, L. N. Zhinkin,
and E. I. Shcherban (Central Research Roentgen-
Radiological Inst.). Mod. Radiol. No. 2, 87-93(1956)
Mar.-Apr. (In Russian)

Med 3

T

Country : USSR
Category: Human and Animal Physiology. Action of Physical
Factors. Ionizing Radiation.
Abs Jour: RZhBiol., No 19, 1958, 39379
Author : Shcherban, E.I.; Vlasova, Z.A.
Inst : -
Title : Morphological Changes in the Kidneys During Acute
Radiation Sickness, Produced by Radioactive Phosphorus.
Orig Pub: Tr. Vses. konferentsii po med. radiol. Eksperim. med.
radiol. M., Medgiz, 1957, 204-208.

Abstract: Rabbits and mice were administered internally or
subcutaneously P32 in doses of 7-66 μ curies/g.
In the majority of cases development of acute radia-
tion sickness was noted with characteristic clinical
symptoms and morphological manifestations, observed

Card : 1/2

T-145

FUNSHTEYN, L.V.; SHCHERBAN', E.I.

Histochemical study of iron in some internal organs during
acute experimental radiation sickness. Vop.radiobiol. 2:
127-136 '57. (MIRA 12:6)

1. Sotrudniki Tsentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.
(IRON IN THE BODY) (RADIATION SICKNESS)

VLASOVA, Z.A.; SHCHERBAN', E.I. (Leningrad)

Morphological changes in the kidneys in acute radiation sickness
produced by radioactive phosphorus [with summary in English].
Arkhn.pat. 19 no.9:43-47 '57. (MIRA 10:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. P.V.Sipovskiy)
Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey
imeni S.M.Kirova i patologoanatomicheskoy laboratorii (zav. - prof.
L.V.Funshteyn) Tsentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.

(KIDNEYS, effect of radiations,

radiophosphorus (Rus))

(PHOSPHORUS, radioactive,

eff. on kidneys (Rus))

AUTHOR: Shcherban', E.I.

Sov 77-3-4-8/23

TITLE: A Method for the Bilateral Autoradiography of Histological
Microscopic Sections (Metodika dvustoronney avtoradiografii
gistologicheskikh srezov)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958,
Vol 3, Nr 4, pp 279-280 (USSR)

ABSTRACT: The author describes his method, based on a modification of
V.I. Feektistov's, for the autoradiography of histological
microscopic sections simultaneously from both sides. The method
consists in coating the radioactive section on both sides with
a photographic emulsion and leaving it to expose itself in a
light-proof box. The bilateral method makes possible a fuller
count of the radiation present in the specimen's tissues. There
are two photos and 6 references, 2 of which are Soviet, 3 Eng-
lish and 1 French.

Card 1/2

SOV 77-3-4-8/23

A Method for the Bilateral Autoradiography of Histological Microscopic Sections

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskii institut Ministerstva zdravookhraneniya SSSR (The Central X-ray and Radiological Research Institute of the Ministry of Public Health, USSR)

SUBMITTED: February 27, 1957

1. Histological sections--Autoradiography 2. Autoradiography--Applications

Card 2/2

SECHERBAN', E.I.

Histochemical investigation on iron metabolism in the hemopoietic
system in acute radiation sickness induced by radioactive phosphorus.
Med.rad..3 no5:78-82 S-O '58 (MIRA 11:12)

(IRON, metab.

hemopoietic system, eff. of radiophosphorus (Rus))

(HEMOPOIETIC SYSTEM, eff. of radiations,

radiophosphorus, on iron metab. (Rus))

(PHOSPHORUS, radioactive,

eff. on hemopoietic iron metab. (Rus))

SHCHERBAN', E.I. (Leningrad).

Detection of hemoglobinogenic iron in tissues by Pearl's method.
Ark.h.pat. 20 no.10:88 '58 (MIRA 11:12)

1. Iz patologoanatomicheskoy laboratorii (zav. - doktor med. nauk L.V. Funshteyn) Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. - prof. M.N. Pobedinskiy) Ministerstva zdravookhraneniya SSSR.

(ERYTHROCYTES, metab.

iron, determ. by Pearl's method (Rus))

(IRON, determ.

erythrocytes, Pearl's method (Rus))

17(7), 23(3,4,5)
AUTHORS: Danilin, A.A., Kozyrina, Z.N., Shcherban', E.I. and
Khachkuruzova, E.S. SOV/77-4-4-7/19

TITLE: Autoradiography of Smears of Peripheral Blood as a
Method of Early Recognition of Inner Irradiation With
Radioactive Substances

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinemato-
grafii, 1959, Vol 4, Nr 4, pp 289-291 (USSR)

ABSTRACT: The authors present a method of autoradiography of
smears of peripheral blood by putting photographic
emulsions on them. From blood, containing radioactive
substances, a thin smear is prepared on a clean. by
alcohol and ether thoroughly degreased microscope slide.
The dried smear is fixed by methyl alcohol. A sublay-
er of 1% celiodyne solution is put on the fixed blood
smear. Then liquid photographic emulsion is put on
the smear. The dried up smear is exposed in a cooler.
The exposed preparation is treated for 3-4 minutes
in amidol developer and fixed with 40% hyposulphite.
The smear is dyed after the radioautography is dried

Card 1/2

SOV/77-4-4-7/19
Autoradiography of Smears of Peripheric Blood as a Method of Early
Recognition of Inner Irradiation With Radioactive Substances

up. The dyed preparation is covered with lacquer.
Figures 1, 2 and 3 show microphotographs, made by this
method. There are 3 diagrams and 4 Soviet references.

ASSOCIATION: Leningrad, Tsentral'nyy nauchno-issledovatel'skiy rent-
geno-radiologicheskii institut Ministerstva zdavo-
okhraneniya SSSR (Leningrad Central Scientific Research
Institute for Roentgenology and Radiology of the Min-
istry of Public Health of USSR)

SUBMITTED: May 17, 1958

Card 2/2

PRIVES, M.G. (Leningrad, P-101, ul. Voskova, d.15, kv.36); FUNSHTEYN, L.V.;
SHCHERBAN', B.I.; SHISHOVA, V.G.

Significance of a method of labeled compounds for investigating the
arterial system of the bone in vivo experiments. Arkh.anat.gist.i
embr. 37 no.11:56-64 N '59. (MIRA 13:4)

1. Kafedra normal'noy anatomii (zaveduyushchiy - prof. M.G. Prives)
1-go Leningradskogo meditsinskogo instituta im. akademika I.P.
Pavlova i laboratoriya patologicheskoy anatomii (zaveduyushchiy -
prof. L.V. Funshteyn) TSentral'nogo rentgenologicheskogo i radio-
logicheskogo instituta.

(BONE AND BONES blood supply)

GRACHEVA, N.D.; LYKOVA, G.S.; FUNSHTEYN, L.V.; SHCHERBAN', E.I.;
POBEDINSKIY, M.N., prof., zaslužhennyi deyatel' nauki, red.

[Manual on histautoradiography] Posobie po gistoavto-
radiografii. Pod red. M.N.Pobedinskogo. Leningrad, TSentr.
nauchno-issl.in-t med.radiologii, 1960. 49 p.

(MIRA 14:3)

(TISSUES--RADIOGRAPHY)

69

PHASE I BOOK EXPLOITATION

SOV/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad. Tsentr. n-issl. in-t med. radiologii M-va zdravookhrananiya SSSR, 1960. 422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following

Card 1/10

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Problems in Radiation Biology (Cont.)

SOT/5435

topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

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Problems in Radiation Biology (Cont.)

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24

Fonshteyn, L. V. On Morphogenesis in Experimental Acute Radiation Sickness

256

Fedorov, Yu. A. Effect of Fractional Whole-Body X-Ray Irradiation of Hard Dental Tissue in White Rats

265

Fonshteyn, L. V., and E. I. Shcherban'. On the Phagocytic Capability of Some Segments of the Reticuloendothelial System Following Whole-Body X-Ray Irradiation of White Mice

272

Ochinskaya, G. V., and L. V. Fonshteyn. Morphologic Changes in Internal Organs of Pregnant Animals Subjected to Whole-Body Irradiation

281

Kholin, V. V. Comparative Data on Injury to the Spleen in Acute Radiation Disease, Depending on Age of the Animals

288

Card 7/10

1. 1000 in Radiation Biology (C-64.4)

SCV/5435

Zigursky, R. S. Prophylactic and Therapeutic Effect of Anesthetic Agents in Radiation Sickness

391.

Johnson, H. A. Comparative Estimate of Protective Properties
of Some Mercapto Compounds

450

Shcherban', E. I. Effect of Moderate Physical Exertion During X-ray Irradiation on the Course of Acute Radiation Sickness

4.2

AVAILABLE: Library of Congress (QE652.V6)

Card 10/10

AC/rm/mag
10-27 62

FUNSHTEN, Lev Vladimirovich; VASIL'YEVA, Ye.I.; GRACHEVA, N.D.;
OCHINSKAYA, G.V.; PROTAS, L.R.[deceased]; RABINOVICH, R.M.;
SHCHENBAK', E.I.; SIPOVSKIY, P.V., red.; RULEVA, M.S., tekhn.
red.

[Atlas of the pathological anatomy of acute experimental radiation sickness] Atlas patologicheskoi anatomii ostroi luchevoi bolezni v eksperimente. Leningrad, Medgiz, 1961. 216 p.
(MIRA 15:2)

(RADIATION SICKNESS) (ANATOMY, PATHOLOGICAL--ATLASES)

FUNSHTeyN, L.V.; OCHINSKAYA, G.K.; SHCHERBAN', E.I.

Morphological changes in the internal organs of mice following a single high dose of X irradiation. Radiobiologiya 1 no.3:440-445 '61; (MIRA 14:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii, Leningrad.

(X RAYS--PHYSIOLOGICAL EFFECT)

IL'IN, L.A.; NORETS, T.A.; ARKHANGEL'SKAYA, G.V.; SHCHERBAN', E.I.

Effect of complex-forming substances on the magnitude of the tissue dose of radiation in the kidneys following administration of radioactive substances. Med. rad. 8 no.12:43-47 D '63.

(MIRA 17:8)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta radiatsionnoy gigieny Ministerstva zdoravookhraneniya RSFSR i Tsentral'nogo nauchno-issledovatel'skogo instituta med tsinskoy radiologii.

CHUPIN, I.Ya., (Leningrad, ul. Gertsena, 46, kv.18); SHCHERBAN', E.I.
(Leningrad, V.O., 14-ya liniya, 25, kv.15)

Distribution of radioactive colloid gold (Au198) in intra-
cavitary administration. Vop. onk. 9 no.9:3-8 '63.

(MIRA 17:9)

1. Iz radioonkologicheskogo otdeleniya (zav.- kand. med. nauk
A.I. Strashinin) i otdeleniya patologicheskoy anatomii (zav.-
prof. L.V. Funshteyn) Tsentral'nogo nauchno-issledovatel'skogo
instituta meditsinskoy radiologii (dir.- Ye.I. Vorob'yev),
Ministerstva zdravookhraneniya SSSR.

VAVILIN, G.I., FUMSHTAYN, L.V.; SHCHERBAN', E.I.

Histoautoradiographic study of the distribution of phthivazid
labelled with radioactive carbon in the lung, liver and spleen.
Probl. tub. 42 no.3:74-79 '64. (MIRA 18:1)

1. Leningradskiy nauchno-issledovatel'skiy institut tuberkuleza
(direktor - prof. A.D.Semencov) i Tsentral'nyy nauchno-issledovatel'-
skiy rentgeno-radiologicheskii institut (direktor Ye.I.Vorob'yev),
Leningrad.

CHERMNYKH, Lev Nikolayevich, kand.sel'skokhoz.nauk; SHCHERBAN', I.,
red.; SAMOLETOVA, A. [Samol'tova, A.], tekhn.red.

[Growing early vegetables] Vyroshchuvannia rannikh ovochiv.
Stalino, Knyzhkova vyd-vo, 1960. 56 p.
(Vegetables)

(MIRA 14:12)

SHCHERBAN', I.B.

Occurrences of graphite in rapakivi granites of the Korosten'
pluton. Geol. zhur. 19 no.4:107-109 '59. (MIRA 13:1)
(Korosten' region--Graphite)
(Korosten' region--Granite)

ROGALIN, P.D.; KRIVENKO, G.N.; NIKITINA, N.A.; KATELLO, F.A.; TAKHTAROV,
M.Kh., red.; SHCHERBAN', I.I., red.; TIMOSHEVSKAYA, A.A., tekhn.
red.

[Innovators clear the way] Dorogu prokladyvaiut novatory. Stalino,
Knizhnoe izd-vo, 1960. 138 p. (MIRA 14:10)
(Agricultural research)

SOTNIKOV, V.I.; SHCHERBAN', I.P.; TYCHINSKIY, A.A.

Effect of porosity on the localization of mineralization in some
mercury deposits. Geol. i geofiz. no. 10: 125-128 '61.

(MIRA 14:12)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

(Mercury ores)

(Porosity)

SHCHERBAN', I. P.

Hydrothermal argillization of enclosing rocks in the Aktash
deposit. Geol. i geofiz. no.9:48-59 Je '62.
(MIRA 15:10)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

(Altai Mountains—Argillization)

KUZNETSOV, V.A.; TYCHINSKIY, A.A.; SHCHERBAN', I.P.

Heterogeneity of quartz-carbonaceous rocks of listvenite habit
and their association with mercury ores. Geol. i geofiz.
no.10:132-146 '62. (MIRA 15:12)

1. Institut geologii i geofiziki Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

(Altai Mountains—Ore deposits)

(Sayan Mountains—Ore deposits)

SHCHERBAN', I.P.

Some characteristics of the weathering of apoutrabasite
quartz-carbonate rocks (listvenites). Kora vyvetr. no.9:
48-55 '65. (MIRA 19:1)

SHCHERBAN', L., inzh.

Rapid assembling of a wooden graduating tower. Stroitel' no.4:6
Ap '58. (MIRA 11:5)
(Coke industry--Equipment and supplies)

Suburban', p. 1.

Geography - Study and Teaching

"Weather observations in geography teaching in the seven-year school." T. P. Gerasimova.
Reviewed by M. I. Sucherban'. Geog. v shkole, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953? Uncl.

SHCHERBAN', M. I.

Dissertation: "Climate of Kiev and Its Change in Connection with the General Plan of Reconstruction." Cand Geog Sci, Kiev State U, Kiev, 1953. (Referativnyy Zhurnal--Geologiya/Geografiya, Moscow, Aug 54)

SO: SUM 393, 28 Feb 1955

SHCHERBAN', M. I.

"Handbook on the adjustment of actinometric instruments,"
Meteor. i gidrol. no. 3:62-63 Mr 53. (MLBA 8:9)

1. Kiyevskiy Gosudarstvennyy universitet im. T.G. Shevchenko.
(Actinometer)

SHCHERBAN', M.I.

"Actinometric reference book." I.N.Iaroslavl'tsev. Reviewed by
M.I.Shcherban'. Izv. AN SSSR Ser.geofiz. no.5:494 S-0 '54.
(MLBA 7:9)

(Iaroslavl'tsev, I.N.) (Actinometer)

NEZDYUROV, D.P., professor; POLOVKO, I.K., professor; SHCHERBAN', M.I.,
kandidat *geografichnikh nauk*.

History of studying the climate of the Ukraine. *Nauk.zap.Kiev.*
un. 13 no.3:75-90 '54. (MLRA 9:10)

(Ukraine--Climate)

SHCHERBAN', M. I.

"Weather observations in geography teaching in the seven-year school." T.P.Gerasimova. Reviewed by M.I.Shcherban'.
Geog. v shkole 18 no.2:74 Mr-Apr '55. (MLRA 8:7)
(Weather) (Gerasimova, T.P.)

SHCHERBAN', M.I.

"Climate of the Ukraine." I.E.Buchinskii. Reviewed by M.I.Shcherban'.
Geog. v shkole 18 no.6:70-71 N-D '55. (MLBA 9:1)
(Ukraine--Climate) (Buchinskii, Ivan Evstaf'evich)

SHCHERBAN', M.I.

"Meteorological observations in school" by L.A. Kuz'min, G.B.
Matinian. Reviewed by M.I. Shcherban'. Geog. v shkole 19 no.6:74
N-D '56. (MLRA 10:1)

(Meteorology)

(Kuz'min, L.A.)

(Matinian, G.B.)

SHCHERBAN', M.I.

"Meteorology" by G.P. Dubinskii, I.I. Gural'nik, S.V. Mamikonova.
Reviewed by M.I. Shcherban'. Meteor. i gidrol. no.8:65-66 Ag '57.
(Meteorology) (MLRA 10:8)
(Dubinskii, G.P.) (Gural'nik, I.I.) (Mamikonova, S.V.)

SECHERBAN', M.I., dots.

Microclimatological features of Kiev. Nauk zap. Kyiv. un. 17 no.1:
77-89 '58. (MIRA 13:11)

(Kiev--Climate)

SHCHERBAN', M.I., kand. geogr. nauk, dots.

San-hsia Reservoir. Nauka i zhyttia 9 no.9:51-53 S '59.

(MIRA 13:1)

(China--Flood dams and reservoirs)

BUCHINSKIY, Ivan Yevstaf'yevich [Buchyns'kyi, I.O.]; SHCHERBAN', M.I., kand.
geogr. nauk, otv. red.; STAROSTENKO, T.M., red.; MATVIICHUK, O.A.,
tekhn. red.

[Climate of the Ukraine] Klimat Ukrairy. Kyiv, 1961. 46 p. (To-
varystvo dlia poshyrennia politychmykh i naukovykh znan' Ukrain's'koi
RSR. Ser. 6, no.9) (MIRA 14:8)
(Ukraine—Climate)

VOLEVAKHA, Nikolay Maksimovich [Volevakha, M.M.]; SHCHERBAN', M.I.,
kand. geogr. nauk, otv. red.; TUBOLEVA, M.V. [Tubolieva, M.V.],
red.; KATVIICHUK, O.A., tekhn. red.

[How to control the weather] Chy mozha keruvaty pohodoiu. Kyiv,
1961. 31 p. (Tovarystvo dlia poshyrennia politychnykh i na-
ukovykh znan' Ukraini's'koi RSR, Ser.6, no.24) (MIRA 15:1)
(Weather control)

SHCHERBAN', M.I.

The founders of microclimatology. Meteor. i gidrol. no.7:60-61
Jl '62. (MIRA 15:6)

(Microclimatology)

SHCHERBAN', M.I.

Kasian Mikolaevych Zhuk as a meteorologist. Geog. zbir. no. 6:
184-188 '62. (MIRA 2:9)

(Zhuk, Kasian Mikolaevich)

1965-1966

Valentin Petrovich Popov's 70th birth day. Izv. AN SSSR Ser. geog.
no.1:149 Ja-F '65. (MIRA 18:2)

SHCHERBAN', M.I.

Actinometric handbook "Foreign countries." Izv. AN SSSR. Fiz. atm.
i okeana 1 no.3:346 Mr '65. (MIRA 18:5)

01.1
The following information was obtained from the
CIA-RDP86-00513R001548910008-5
CIA-RDP86-00513R001548910008-5

SHCHERBAN', M. M.

USSR/Geophysics - Solar radiation studies

FD-761

Card 1/1 : Pub 44-9/11

Author : Shcherban', M. M.

Title : Review of 'Aktinometricheskiy Spravochnik' [Actinometric Handbook],
No 1, 1953

Periodical : Izv. AN SSSR, Ser. geofiz., 494, Sep-Oct 1954

Abstract : Reviews a new periodical of the Tashkent Geophysics Observatory,
published by Publishing House of the Administration of Hydrometeoro-
logical Service of Uzbek SSR, Tashkent. The first issue (200 copies
and 138 pages; editor, Prof. I. N. Yaroslavtsev) gives systematic
tabular data on the intensity and heat sums of direct solar radiation
in Tashkent for a 25-year period (1926-1950); the text gives the brief
historical survey of the development of actinometry in the USSR,
mainly by V. A. Mikhel'son, S. I. Savinov, N. N. Kalitin, etc.)

Institution : --

Submitted : --

SHcherban', N.P.,
aspirant; DORONIN, M.M., doktor veterin. nauk

Testing BCG vaccine in tuberculosis of poultry. Veterinariia 41
no.2:41-43 F '65. (MIRA 18:3)

1. Voronezhskiy sel'skokhozyaystvennyy institut (for Shitov).
2. Rossoshanskoye proizvodstvennoye upravleniye (for Vitkalov).
3. Donskoy sel'skokhozyaystvennyy institut (for Shcherban',
Doronin).

GOLOVAN', N.A.; SHCHERBAN', N.I.

Design and manufacture of metal dies for automatic presses.
Porosh. met. 5 no.4:94-99 '65. (MIRA 18:5)

1. Kiyevskiy mototsikletnyy zavod.

VAYSERMAN, Yu.A.; SHCHERBAN', N.I.

Spectroscopic determination of sulfur in sulfidized ceramic
metal products. Porosh. met. 5 no.7:97-99 J1 '65.
(MIRA 18:8)

1. Kiyevskiy mototsikletnyy zavod.

ACC NR: AP6036894

(A)

SOURCE CODE: UR/0226/66/000/011/0017/0022

AUTHOR: Radomysel'skiy I. D.; Shcherban', N. I.

ORG: Institute of Problems of Material Science, AN UkrSSR (Institut problem materialovedeniye AN UkrSSR)

TITLE: Investigation of sintering of metal-glass materials

SOURCE: Poroshkovaya metalluriya, no. 11, 1966, 17-22

TOPIC TAGS: metal glass material, metal glass material sintering, metal glass material shrinkage, sintered glass, metal sintering

ABSTRACT: The effect of glass content on the shrinkage of sintered metal-glass composites has been investigated. Specimens prepared from PZh2M iron powder (GOST 9849-61) and 0.5 to 12% VVS-type glass on 1 and 7% pyrex glass were sintered at 600-1100C in dry hydrogen for 2 hr. It was found that in the presence of liquid glass, the volume shrinkage of the metal-glass composites increases with increased glass content, i.e. glass activates the shrinkage process. Shrinkage also increases with an increase in sintering temperature, except for the temperature range between 850 and 950C, where the shrinkage drops due to the iron phase transformation, which takes place at this temperature range. The ratio of axial (A) and radial (R) shrinkage increases with an increase in glass content and at 12 mas % of glass, A/R equalled 3.3. It was also found that Pyrex acid glass, despite its high viscosity, contributes

Card 1/2

(N) L 13265-66 EWP(e)/EWT(m)/EWP(w)/EWP(v)/EWP(j)/T/EWP(t)/EWP(k)/EWP(z)/

ACC NR: AP6001479 EWP(b)/ETC(m) JD/ SOURCE CODE: UR/0226/65/000/012/0083/0092
WW/WB/RM/WH

AUTHOR: Radomysel'skiy, I. D.; Shcherban', N. I.

ORG: Institute of Materials Research, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Uses of glass in powder metallurgy (a survey)

SOURCE: Poroshkovaya metallurgiya, no. 12, 1965, 83-92

TOPIC TAGS: glass property, glass to metal seal, powder metallurgy, powder metal sintering, DURABILITY, CORROSION RESISTANCE

ABSTRACT: Basic information on the nature of vitreous state, properties of glass and processes of interaction between metals and molten glass is presented. In particular, the viscosity and chemical resistance of glass are highly useful qualities in glass-metal materials. An adequate degree of wetting of a metal surface by molten glass can be assured if an oxide film exists on the metal surface and if the melting point of the metal exceeds the soldering temperature. Using glass as a protective medium in metal furnaces makes it possible to sharply reduce the wastage due to oxidation, since the layer of molten glass floating on the surface of a compact or sufficiently dense powdered-metal material in the sintering furnace shuts off any access of air or other gases, i.e. this process is as effective as vacuum heating. Moreover then the sintered

Card 1/2

L 13265-66

ACC NR: AP6001479

7
products have a lustrous surface, since the molten glass removes the oxide film and contaminations from the surface of the products. In addition, broken glass and other wastes of glass production can thus be usefully utilized. As for the other field in which glass can be utilized in powder metallurgy, namely, the production of glass-metal materials, the sintering of porous metal powders in molten glass of the proper viscosity at the proper temperature results in processes of impregnation of the pores by the glass and yields glass-metal alloys with comparatively high properties: high mechanical strength, corrosion resistance, wear resistance, scaling resistance, and high electrotechnical properties. Considering the current state of powder metallurgy and glass technology, the following principal ranges of application of glass in powder metallurgy may be outlined: a) sintering of compact powdered-metal materials and heating of compact metals under a layer of molten glass without employing a protective atmosphere; b) impregnation of porous billets with glass in order to obtain strong, easily processed structural powdered-metal materials with high wear and corrosion resistance; c) impregnation of porous billets in order to develop new electrotechnical materials; d) sintering and impregnation of porous sheet metal in order to obtain glass-metal sheets with special properties; e) development of glass-metal fiber with high properties and corrosion and wear resistance. Orig. art. has: 1 figure, 4 tables.

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SUB CODE: 11/ SUBM DATE: 28Mar65/ ORIG REF: 011/ OTH REF: 005

Card 2/2

L 27711-66 EWP(e)/EWT(m) WH

ACC NR: AP6015351 (N)

SOURCE: CODE: UR/0226/66/000/005/0041/0048

AUTHOR: Beloivan, A. F.; Isakhanov, G. V.; Radomysel'skiy, I. D.; Shcherban', N. I.

ORG: Institute of Material Study, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Mechanical properties of sintered metal-glass material¹⁵

SOURCE: Poroshkovaya metallurgiya, no. 5, 1966, 41-48

TOPIC TAGS: composite material, metal glass material, sintered material, material property

ABSTRACT: The mechanical properties of sintered metal-glass materials made of PZh-2M (GQST9849-61) iron powder mixed with 0.5, 1.0, 2.0, 3.0, 5.0, 7.0, or 12% glass have been investigated. Green compacts obtained under 52 kg/mm² pressure were sintered at 600—1200C for 1—2 hr. The strength of sintered material was found to depend primarily on the strength of the metal framework. However, glass intensifies the sintering and shrinkage, increases the density, and thus improves the mechanical properties of the metal-glass composites. The strength of the metal framework depends upon the diffusion of particles forming the framework. An increase in the sintering temperature up to 850C intensifies the shrinkage and, as a result, the material strength. At 900—1050C, the shrinkage and the strength decrease to a

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L 27711-66

ACC NR: AP6015351

minimum, which is explained by the α -to- γ transformation. With a further increase in sintering temperature, the shrinkage and the strength increase again. Orig. art. has: 7 figures and 6 formulas. [ND]

SUB CODE: 11/ SUBM DATE: 29Nov65/ ORIG REF: 006/ OTH REF: 001/ ATD PRESS:

5001

Card 2/2 BKG

CHERNIAK, I. . . . Vet.)

"The Work of the Ioltava Intersovkhoz Vet. Bacteriological Lab."

SC: Vet. 23 (3), 1951, p 50

Ministry of Sovkhoses, Vet. Administration, Ukrainian SSR

USSR, P.R., and Vet Sci --(dis) "Certain parasitological data on
bionomogenesis of the cory and measures of combating this disease in
the fisherie of the USSR." Belya Tchernov', 1975. 18 pp incl cover.
(1st of Apr USSR. Belokhvostovskiy Apr Inst), 100 copies (IL, 44-53, 126)

VOLKOBOY, M.F., prof.; SHCHERBAN', N.P. [Shcherban', M.P.], kand.veterin.nauk

Differential diagnosis and control of carp diseases due to infestation
with the helminths *Botriocephalus gowrongensis* and *Caryophyllaeus*
fimbriceps. Visnyk sil'hosp.nauky 4 no.8:119-121 Ag '61.
(MIRA 14:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva.
(Carp—Diseases and pests)

VOLKOBOY, M.V., prof.; SHCHERBAN', N.P., kand.veter.nauk; KOVALEVSKIY, V.B.,
veter.vrach

About the book "Fish diseases and pests." Veterinariia 38 no.6:
89-90 Je '61. (MIRA 16:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva.
(for Volkoboy, Shcherban'). 2. Kiyevskaya oblastnaya veterinarno-bakte-
riologicheskaya laboratoriya (for Kovalevskiy).
(Fishes—Diseases and pests)

СЕРИЙНИЙ, Науч. изд. ветерин. наук

Ichthyophthiriasis of carp. Veterinariia 21 no.1:50-53 Ja '66.
(MPL 1842)

1. Ukrainsky nauchno-issledovatel'skiy institut rybnogo
khozyaystva.

POZHARSKIY, D.S. [Pozhars'kyi, D.S.]; SHCHERBAN', O.K.

New technology in the projects developed by the Ukrainian Institute for the Design and Planning of Enterprises of the Light Industry. Leh.prom. no.3:71-74 J1-S '63. (MIRA 16:11)

1. Ukrainskiy institut po proyektirovaniyu predpriyatiy legkoy promyshlennosti.

S/526/62/000/024/001/013
D254/D308

AUTHORS: Shcherban', O.N. and Furman, N.I.

TITLE: Investigation of non-stationary temperature conditions in flameless contact combustion of methane

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut teploenerhetyky. Zbirnyk prats'. no. 24, 1962, Teploobmin ta hidrodynamika, 3-12

TEXT: The investigation was carried out on the heat conversion unit of the single-chamber pickup for combustible gases used in automatic gas analyzers IM-2, IM-3, IMT-1 (IM-2, IM-3, IMT-1). A measuring and a compensating resistance thermometer are placed in an explosion-proof chamber; a catalyzer heater is placed under each of them. Methane is burned only in the heater under the measuring thermometer. Equations are deduced for heating and cooling processes of thermometers and catalyzers after switching on and off; for temperature difference between the catalyzers in the transient process (seven possible versions of the latter are plotted); for the

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Investigation of non-stationary ...

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transient process of methane combustion. The last equation is only qualitatively correct, giving too low value for the inertness. For this reason the time of stabilization of the catalytic combustion reaction is more essential than that of heating of the catalyzer, but the reaction can only be investigated experimentally. Oscillograms of the transient processes are given. Conclusions: the time constant of the transient processes of measuring elements is much smaller than that of the catalyzers. There are 7 figures. ✓

Card 2/2

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(WOUNDS--TREATMENT)
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(BONE) (METABOLISM)

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(ADENOSINETRIPHOSPHORIC ACID) (MUSCLES--TRANSPLANTATION)
(POLIOMYELITIS)

SHCHERBACH, O., akademik

Brilliant scientist. Nauka i zhyttia no.11:22-26 N '61.

(MIRA 14:12)

(Lomonosov, ~~Mikhail~~ Vasil'evich, 1711-1765)